





HAZARD IDENTIFICATION

(AL-130)

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Click on the icon for narration



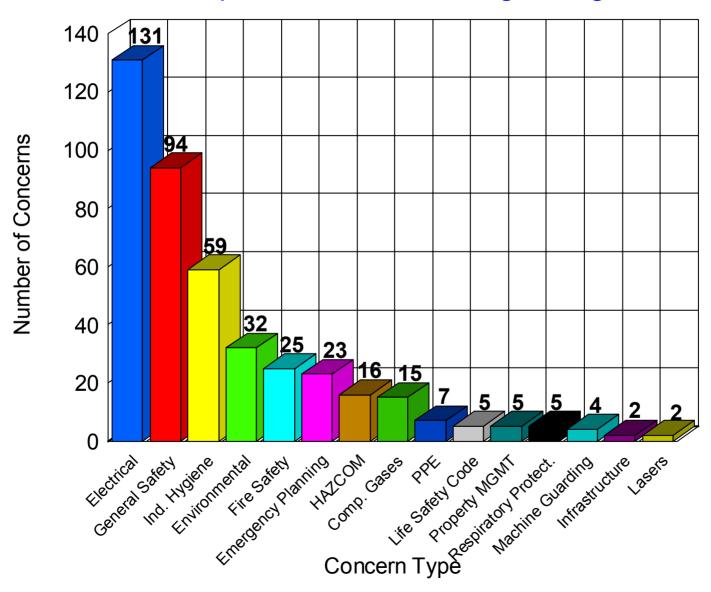
BACKGROUND

- Safety Coordinator / Representative Program History
- Safety Coordinator & Representative Orientation
- 5-year retrain allows sharing of lessons learned information
- Independent Walk Through Findings



2001 TOP 15 Concerns

Independent Walk-Through Program

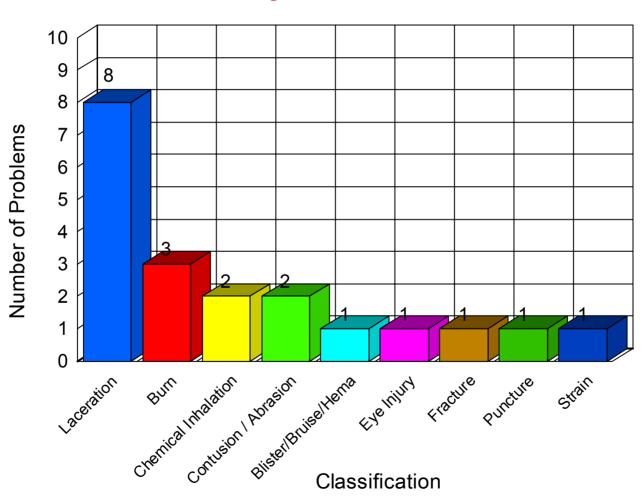


GOALS

- Basic recognition of hazards in our facility
- Provide checklist tool
- Points of contact for each topical area



2001 Injuries & Illnesses



A COUPLE OF "GIVENS".....

- Coordinators and Reps deal with different hazards, so....parts of course probably won't apply to you!
- Not all discussion points are "hazards". Administrative issues mentioned too.



INTEGRATED SAFETY MANAGEMENT....

- The foundation of our safety program
- Requires all employees to have a proactive, comprehensive safety attitude.....from planning of work through completion
- Video: "Safety Attitudes"



TOPICAL AREAS

QUALITY ASSURANCE/TRAINING GENERAL SAFETY INDUSTRIAL HYGIENE ENVIRONMENTAL PROTECTION HEALTH PHYSICS



QUALITY ASSURANCE/TRAINING

Readiness Review



- New activities
- 5-year review of existing activities
- Activities occurring in Ames Laboratory space



Overhead Storage



- Storage devices >6 ft.must be secured
- •Overhead storage >6 ft. allowed if items secured and device is meant for storage
- •ESH&A G.P. Jones

INDUSTRIAL SAFETY

Personal Protective Equipment





- Types of PPE: head to foot
- OSHA says: must be appropriate for hazard, user must be trained
- Applicable in both research environment and support functions

Housekeeping



- OSHA: All work areas maintained neat and orderly
- Cleanliness is positively corrolated with level of safety
- Frequent finding on Independent Walk Throughs

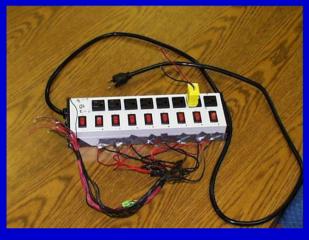


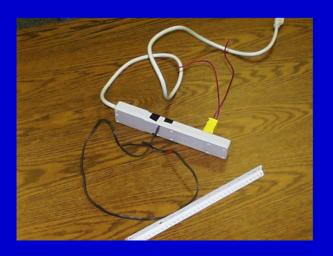


Egress/Emergency Access

- 36"- all exit routes
- Keep exit routes clear
- Access to fire extinguishers, electrical disconnects

Electrical Safety - Appropriate use of equipment





- Outlet panels versus permanent service
- Alterations invalidate UL-listing
- Equipment/wiring must meet specifications
- Mandatory training modules for electrical work

Electrical Safety - Frayed cords



- Check condition of cords regularly
- Replace frayed cords extension cords
- Non-conductive, strain relief devices
- Consultations available from Engineering Services (John Hjortshoj: 4-7907)

Fire Safety - Equipment left on



- Coffee pots, soldering irons
- Fire hazard when near combustible items
- Common finding on PPS tours at night

Walking Surfaces - Slips, Trips, Falls



- Stairs, hallways, sidewalks
- Significant number of employee injuries from slips/trips/falls
- Most hazardous conditions can be corrected
- Contact ESH&A or FS

Facility Conditions - Asbestos



- Pipes, transite in hoods, floor tiles
- Report any loose (friable) material to ESH&A or FS
- Remediation techniques: removal, encapsulation

Ergonomics



- Repetitive motions, Carpal Tunnel Syndrome, back injuries
- Training courses
- Ergonomic consultations from Occupational Medicine and Industrial Hygiene

Chemical Hygiene



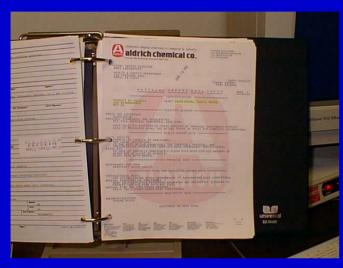
- Remove PPE before exiting laboratory/using public facilities
- Practice good hygiene hand washing, etc.
- Food/beverage consumption in designated areas

Chemical Management - Cylinders



- Appropriately secured
- Regulators/manifolds appropriate for gas
- Acutely toxics in ventilated enclosures
- Activity-specific training plus "Cylinder Safety"
- In compliance with "Cylinder Safety Guidelines"

Chemical Management





- MSDSs required for all hazardous chemicals - ESH&A resources
- Users familiar with basic ES&H info for chemicals they use
- Inventories current and submitted to ESH&A on an annual basis
- Procedures current and training documented

Chemical Management - Engineering Controls



- Use chemical hoods whenever possible
- Required for acutely toxics, carcinogens, low-odor threshold chemicals
- Ensure proper usage sash height correct
- Ensure testing within past year

ENVIRONMENTAL PROTECTION

Waste Management



- EPA scrutinizing college campuses
- Waste labels not filled out
- Waste not picked up within required time frame
- Waste containers not capped

HEALTH PHYSICS

Radiation Safety - Lasers





- Ensure interlock devices functioning (required for Class IV units)
- Users receive training, eye exams (including exit)
- Consultations Lee Harker, Engineering Services

HEALTH PHYSICS

Radiological Material Storage



- Labeling and signage appropriate
- Users receive Rad Worker II training
- Consultations Jay Beckel, Ken Ewing

HEALTH PHYSICS

Dosimetry



- Badges, rings worn by users to measure dosages
- Turn in badges when requested including termination
- Consultations Jay Beckel, Ken Ewing

CHECKLIST

- Organized by topical areas amended ISU Chemical Hygiene Plan form
- Intended for group-level walkthroughs by Group Leaders, Safety Representatives, Safety Coordinators
- Amenable to customization for a specific area
- Make appointment with ESH&A to amend checklist for your area

Thanks for attending!

Web addresses:

Ames Laboratory: http://www.external.ameslab.gov/esha/training.html

Iowa State University: http://www.ehs.iastate.edu/training.htm